Notebook, N-98-06-30

This notebook covers the period June-July 1898. It was used by Ernest D. Kellogg as a logbook for meter tests. At the end of the book are several pages of undated notes by an unidentified experimenter relating to experiments on the heating of brass tubing. The front cover is labeled "Experimental Integrating Meter Reversing Electrolytic Mr. Kellogg(?) June 30-July 28, 1898." The pages are unnumbered, and the book has been used in both directions. Several pages have been removed from the book. Approximately 40 pages have been used.

Log of Meter Test.
started at 4.13 A.M. Thursday.
June 30. 1898

Meter #1.

Test	Test	Test	Test	Remarked
4 Cups		Result	Test	
9.00-30	1.13-00		3.23-30	9 Cups
1.13-00	4.46-30	3.33-30		
4.46-30	8.20-30		3.34-00	
8.20-30	11-49-30	3.29-00		
11-49-30	3.25.30		9.36-20	
3.25.30	8.26.00	5:00-30		5 Room Contacts
8.26.00	12.18-15		3.52-15	
12.18-15	4.13-30	3.55-15		
4.13-30	7.56-00		3.43-30	
7.56-00	11.21-30	3.25-30	55	
11.21-30	3.06-10		3.45-40	
3.06-10	6.12-30	3.12-20		Test ceased to record on switch [illegible]
6.12-30				

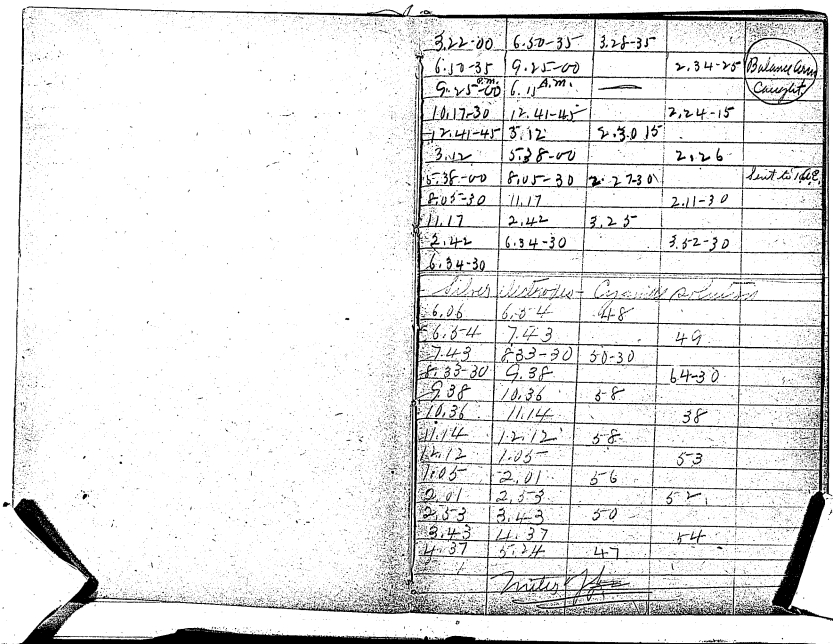
Put C.T. on pinned electrodes in #1 + charged
Trip spring lever. Restart at 9 P.M. July 1

9.26-10	12.21-30	2.45-50		Try to note the curve when the clamping bolts.
12.21-30	3.22-45		3.01-15	
3.22-45	6.19	2.54-05		3 min. 10 sec. Curve when the clamping bolts.
6.19	9.10		2.51	
9.10	12.30	3.20		
12.30	3.00	3.30	2.30	(Good)
3.-	6.03	3.03		Oblique [illegible]

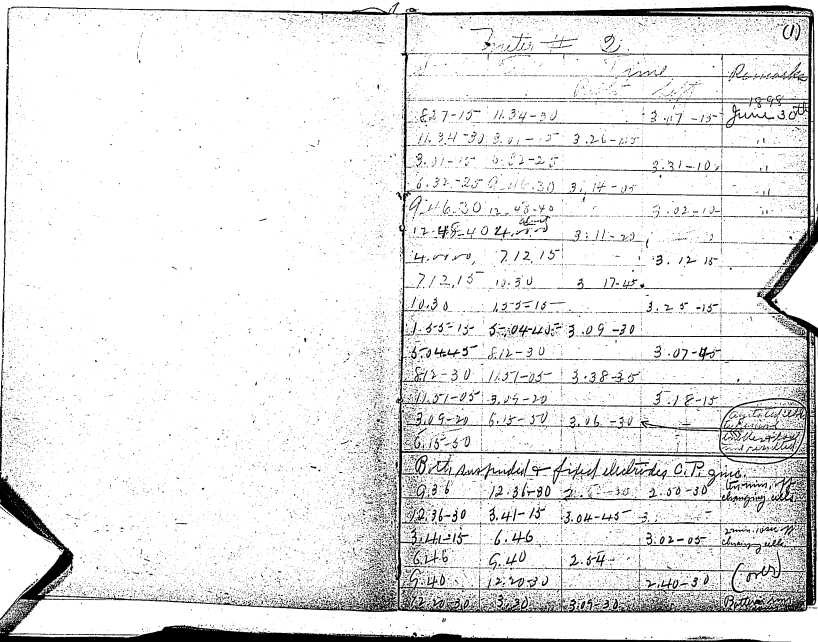
Time	Time	Right	Left	Remarks
9.07-30	12.20	3.12	3.03	Restart.
12.20	3.07	2.47	2.47	
3.07				Batteries run down.
8.5-9	12.02		3.03	Restart.
12.02	3.07-30	3.05-30		
3.07-30				

Connections — 3 accounts in solution.

8.23-00	A.m. 8.20-00	2.57-00		
8.20-00	11.02-30		2.42-30	
11.02-30	P.m. 1.45-00	2.42-30		
1.45-00	4.42-00		2.57-00	
4.42-00	7.36-00	2.54		
7.36-00	10.26-00		2.50	
10.26-00	A.m. 1.06-00	2.40		
1.06-00	4.02-00		2.56	
4.02-00	6.54-00	2.52		
6.54-00	9.44-00		2.50	
9.44-00	12.30-45	2.46-45		
12.30-45	3.26-00		2.55-45	



3.22-00	6.50-35	3.25-35		
6.50-35	9.25-00		2.34-25	Balance Carry Caught
9.25-00 p.m.	6.11 A.m.			
10.17-30	12.41-45		2.24-15	
12.41-45	3.12	2.30 15		
3.12	5.38-00		2.26	
5.38-00	8.05-30	2.27-30		Sent to Hall
8.05-30	11.17		2.11-30	
11.17	2.42	3.25		
2.42	6.34-30		3.52-30	
6.34-30				
Sales	Witnesses	Cigarettes	Amount	
6.06	6.54	48		
6.54	7.43		49	
7.43	8.33-30	50-30		
8.33-30	9.38		64-30	
9.38	10.36	58		
10.36	11.14		38	
11.14	12.12	58		
12.12	1.05		53	
1.05	2.01	56		
2.01	2.59		57	
2.59	3.43	50		
3.43	4.37		54	
4.37	5.24	47		
	Totals			

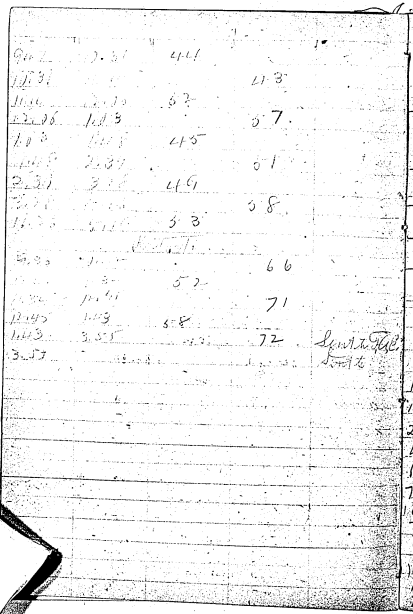


Series 4 2 (1)

				Remarks
				1898
8.27-15	11.34-30		3.07-15	June 30th
11.34-30	3.01-15	3.26-45		"
3.01-15	6.32-25		3.31-10	"
6.32-25	9.46-30	3.14-05		"
9.46-30	12.48-40		3.02-10	"
12.48-40	4.02	3.11-30		"
4.02	7.12.15		3.12-15	"
7.12.15	10.30	3.17-45		"
10.30	13.55-15		3.25-15	"
1.55-15	5.04-45	3.09-30		"
5.04-45	8.12-30		3.07-45	"
8.12-30	11.51-05	3.38-35		"
11.51-05	3.24-20		3.18-15	"
3.09-20	6.15-50	3.06-30		"
6.15-50				

Both suspended & fixed electrodes C.T. grids. (Trouble with grids changing ratio)

9.36	12.36-30	2.55-30	3.00-30	
12.36-30	3.41-15	3.04-45		2 grids, 1 case (Trouble with grids changing ratio)
3.41-15	6.46		3.02-05	
6.46	9.40	2.54		
9.40	12.40-30		2.40-30	(end)
12.40-30	3.30	3.05-30		Bottom Grid



(2)

Time	Trig	Right	Left	Remarks
7.19	10.35	3 16	3.	
10.35	15 0	3. 15	3. 15	
15 0	5.10-30	3.22-30	3.22 -30	
5.10.30				Putting down
8.37-30	11.51		3.13-30	
11.51	3,13	3,18		
3,13				
Cl. ruby pots - Cd electrodes.				
5:10-00	9.25-00 (4.30 PM)	4.15-00		
9.25-00	11.04-30 (4.30 PM)		1.39-30	
11.04-30	12.45-00	1.41-00		
12.45-00	2.25-00		1.39-10	
2.25-00	4.19-40	1.54-40		
4.19-40	6.30-00		2.10-20	
6.30-00	7.56-00	1.26-00		
7.56-00	10.02-00		2.06-00	Checked Joint + touched bottom
10.02-00	7.25-30	3.23-30		
7.25-30	9.46-30		2.21-00	
9.46-30	11.40-45	1.54-15		
11.40-45	1.17-20		1.36-35	
1.17-20	4.34-30	3.21-10		
4.34-30	6.05-00		1.26-30	

9.11-30	10.03	51-30	(4)	Limit 45 TLC
10.03	10.08		8-5	
10.08	11.53	5-5		
11.53	12.46		5-3	
12.46	1.38	5.2		
1.38	2.31		5-5	
2.31	3.26	5-5		
3.26	4.21		5-5	
4.21	5.15	5-4		
5.15	6.06-30		51-30	Cara Hygiene 0
6.06-30	7.03-30	54-30		to noon
7.03-30				
9.24-10	10.25		56-60	
10.25	11.16-15	41-15		
11.16-15	12.09		46-45	
12.09	12.36	43		
12.36	2.05		89	Balance noon
2.05	2.58	3-8		noon only
2.58	3.45-60		42-30	
3.45-60	4.32	49-15		
4.32	5.17		42	
5.17	5.56	39		
5.56	6.36		40	
6.36	7.23	44		
7.23	8.08		45	
8.08	8.47	44		
8.47	9.47		50	

6.05-00	7.38-00	133 00		(3)
7.38-00				
Silver Electrodes - Cyanides of K + Ag.				
10.11-30 p.m.	11.02-30	51.		
11.02-30	11.54-00		51-30	
11.54-00	12.43-00	49		
12.43-1.28	1.28-00		45-	
1.28-00	2.21	5-3		
2.21	3.12		51	
3.12	3.58	46		
3.58	5.45			Balance noon only
5.45	1.27	42		
6.27	7.20		53	
7.20	8.15-30	55-30		
8.15-30	9.10		54-30	
9.10	10.04	54		
10.04	10.57		53	
10.57	11.55	58		
11.55	12.45		50	
12.45-p.m.	1.31	46		
1.31	2.26		55	
2.26	3.15	49		
3.15	4.10		55	
4.10	4.56	46		
4.56	5.46		50	
5.46	6.39	53		
6.39	7.30		51	
7.30	8.22-34	52-30		
8.22-34	9.21		48	

11.30	12.31		61
1.31	1.43	44	
1.43	2.12		60
2.12	2.38	46	
2.38	3.56		58
3.56	4.30	43	
4.30	5.36		57
5.36			

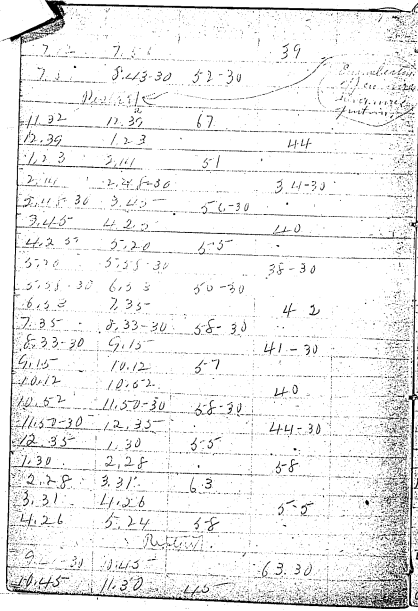
Date Tube #3 (1)

				Remarks
12.13-17	3.30-30		3.17-15	
3.30-30	7.40-40	4.10-10		
7.40-40	10.59.45		3.19-05	
10.59.45	3.50.20	4.50-35		Lime set - [illegible]
3.50-20	7.43.45		3.53-25	
7.43.45	1.37-15	5.53-30		
1.37-15	5.59-30		4.22-15	
5.59-30	11.35-40	5.36-10		
11.35-40	3.11-30		3.35-50	
3.11-30	7.06-30	4.55-00		Sump wiped [illegible] Electrodes [illegible]
7.06-30				

Copper (suspended) electrodes plated with gold 2 mesh, 10 Dec. 17 changing solution

2.15-30	6.47	4.31-30		
6.47	9.45-30		3.58-30	
9.45-30	2.59	5.13-30		
2.59	6.20		3.21	
6.20	12.04-30	5.44-30		
12.04-30				Bottom dry
10.37	2.42-30		4.05-30	Restart
2.42-30				Bottom dry

(over)



7.	7.5[illegible]	39	
7.5	8.43-30	52-30	
Rest			
11.32	12.35	67	
12.35	1 2 3		44
1 2 3	2.11	51	
2.11	2.24 F-30		3.4-30
2.11 F-30	3.45	56-30	
3.45	4.2.2		40
4.2.35	5.2.0	65	
5.2.0	5.25.30		38-30
5.25.30	6.15.5	60-30	
6.15.5	7.35		42
7.35	8.33-30	58-30	
8.33-30	9.15		41-30
9.15	10.12	57	
10.12	10.52		40
10.52	11.50-30	68-30	
11.50-30	12.35		44-30
12.35	1.30	55	
1.30	2.28		58
2.28	3.31	63	
3.31	4.26		55
4.26	5.24	58	
Rest			
9-30	1145		63.30
11.45	11.30	45	

Agitelectric - RCN+AgCN solution #3.

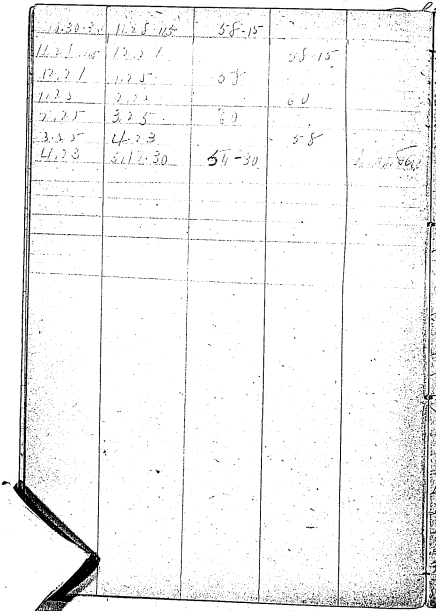
Limit	Left	Right	Left	Remarks
4.00-00	5.40-00 A.M.		1.40-00	(2)
5.40-00	7.12-20	1.32-20		
7.12-20	8.54-20		1.42-00	
8.54-20	9.57-45	0.57-25		
9.57-45	10-31-30		33.45	
10.31-30	11.27-40 P.M.	56.10		
11.27-40	12.10-30		42.50	
12.10-30	1.10-00	59-30		
1.10-00	1.54-20		44.20	
1.54-20	2.52-10	57-50		
2.52-10	3.35-30		43.20	
3.35-30	4.31-15	60-45		
4.31-15	5.17-50		41.35	
5.17-50	6-12-30	54-40		
6.12-30	6.53-00		40.30	
6.53-00	7.46-00	53-00		
7.46-00	8.25-00		39-00	
8.25-00	9.21-00	56.00		
9.21-00	10.02-00		41-00	
10.02-00	10.57-00	55-00		
10.57-00	11.41-00		43-00	
11.41-00	12.43-00 A.M.	58-00		
12.43 A.M.	1.32-00		51.00	
1.32-00	2.36-00	64-00		
2.36-00	3.34-00		58-00	
3.34-00	4.28-00	54-00		
4.28-00	5.24-00		56-00	
5.24-00	6.07-00	43-00		
6.07-00	6.52-00		45-00	(over)

9.05-	9.50	46		(4)
9.51	10.30		39	
10.30	11.22-30	52-30		
11.22-30	12.01		38-30	
12.01	12.56	55		
12.56	1.36		40	
1.36	2.26	50		
2.26	3.08		42	
3.08	3.51	43		
3.51	4.29		38	
4.29	5.20	51		
5.20	6.00		40	
6.00	6.47-30	47.30		
6.47-30	7.25-10		37-40	
7.25-10	8.16-30	53-20		
8.16-30	8.57		38-30	
8.57	9.47-30	50-30		
9.47-30	10.26		35-30	Sent to 5002
10.26	11.10	44		
11.10	11.57		47	
11.57	12.48	51		
12.48	1.27		39	
1.27	2.21	54		
2.21	3.03		42	
3.03	3.55	52		
3.55	4.45		50	
4.45	5.39	54		
5.39	6.30-30			
6.30-30	7.12	42-30	41-30	

6-52-20	7.50-00	58-00		(3)
7.50-00	8.27-30		37-30	
8.27-30	9.20-30	57.00		
9.20-30	10.04-00		43.30	
10.04-00	10.59-00	55-00		
10.59-00	11.39-45		40-45	
11.39-45	12.37-00	57.15		
12.37-00	1.18-30		41-30	
1.18-30	2.17-00	58-40		
2.17-00	2.58-30		41-30	
2.58-30	3.52	55-30		
3.52	4.32-30		40-30	
4.32-30	5.27-35	55-05		
5.27-35	6.05-00		37-25	
6.05-	6.54	49		
6.54	7.34-20		40-20	
7.34-20	8.33	58-40		
8.33	9.16-10		43-10	
9.16-10	10.10	53-50		
10.10	10.57-45		40-45	
10.57-45	11.47	56.15		
11.47	12.32		45	
12.32	1.28	56		
1.28	2.21		53	
2.21	3.17	56		
3.17	4.05		48	
4.05	5.01	56		
5.01	5.49		44	
5.49	6.39-10	54-10		
6.39-10	7.20		40-50	
7.20	8.14-30	54-30		
8.14-30	9.05		40-30	

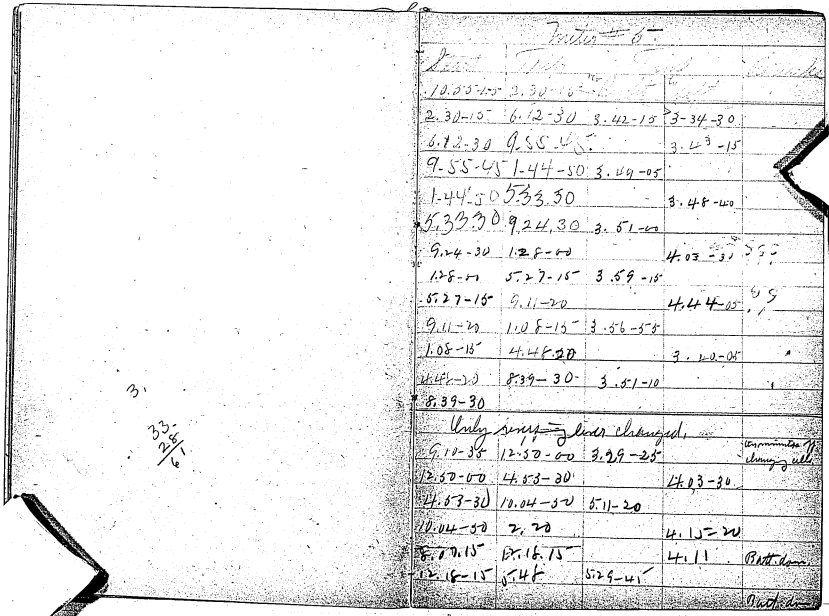
Mill #4

				Remarks
				4
8-10				
8.06	11-14		3.08	
11-14	2-27-20	3.13 20		
2-27-20	5-5-10		3.27-30	
5-5-10	8.48 45	2.53-35		
8.48 45	12.15-54		3.26.15	
12.15	3.-3-54-0	8.20-00		
3.3-54-0	7.16-40		3.41-40	
7.16-40	11.01-30	3.46-50		
11.01-30	2.27-30		3.26.00	
2.27-30	7.13-45	4.46-15		
7.13-45				
Changed only in fingers & Lever.				
9.46	12.50	2.04		10 minutes off changing rolls. 2 hours 15 Min. off changing all.
12.50	6.12		5.19-20	
6.12	8.59-25	2.47-25		
8.59-25	2.21		5.21-35	
2.21	6.25	4.04		
6.25	12.14-30		4.49 30	Putting in



Silver electrodes - Nitrate solutions.

1.35	12.52-30	1.17-10	
12.52-30	2.17		1.25-30
2.17	3.20	1.03	
3.20	4.40		1.20
4.40	6.21-30	1.21.30	
6.21-30	7.08		46-30
7.08	9.25	1.17	
			suspended wire broke. Sent to T.H.C.
12.52	1.37-30	59-30	
1.37-30	2.25		63.30
2.05	3.12	67	
3.12	4.10		58
4.10	5.04	56	
5.04	6.03		59
6.03	6.59	66	
6.59	7.50		51
7.50	8.51	49	
8.57	9.51		60
9.57	10.52	61	
10.52	11.52		60
11.52	12.51-30	59-30	
12.51-30	1.55		63-30
1.55	2.58	63	
2.58	3.59		61
3.59	5.00	61	
5.00	6.01		61

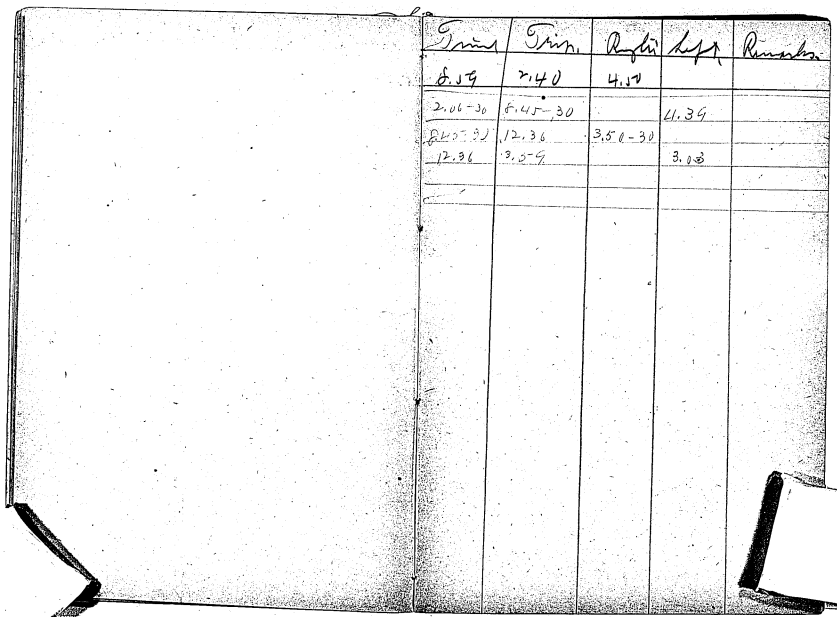


Intra-B

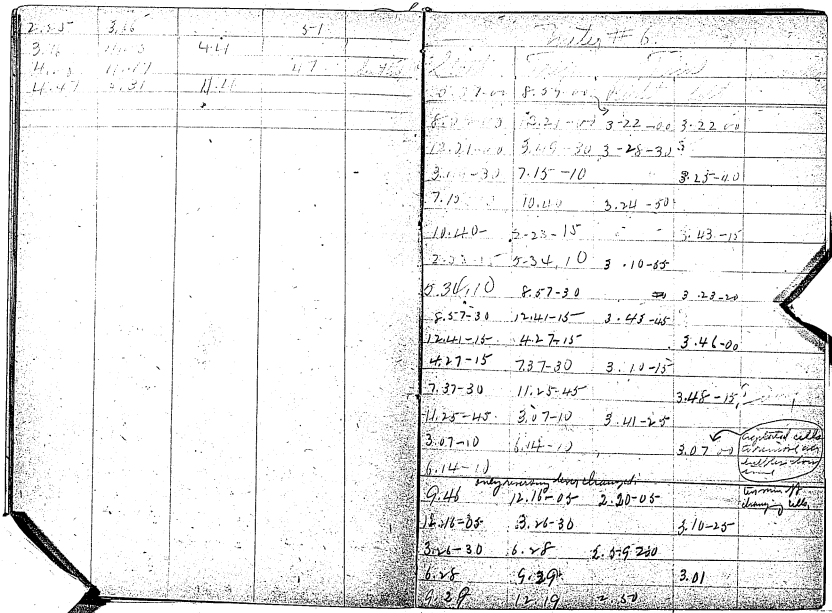
Last				Check
10.55-15	2.30-15			
2.30-15	6.12-30	8.42-15	3-34-30	
6.12-30	9.55-45		3.43-15	
9.55-45	1.44-50	3.49-05		
1.44-50	5.33.30		3.48-40	
5.33.30	9.24.30	3.51-00		
9.24-30	1.28-00		4.03-30	
1.28-00	5.27-15	3.59-15		
5.27-15	9.11-20		4.44-05	
9.11-20	1.08-15	3.56-55		
1.08-15	4.44.20		3.36-05	
4.44-20	8.39-30	3.51-10		
8.39-30				

Only group closed cleared.

9.10-35	12.50-00	3.29-25		Commuter off during call
12.50-00	4.53-30		4.03-30	
4.53-30	10.04-50	5.11-20		
10.04-50	2.20		4.15-20	
8.00.15	12.16.15		4.11	Both down
1.12.15-15	5.46	5.29-45		Both down

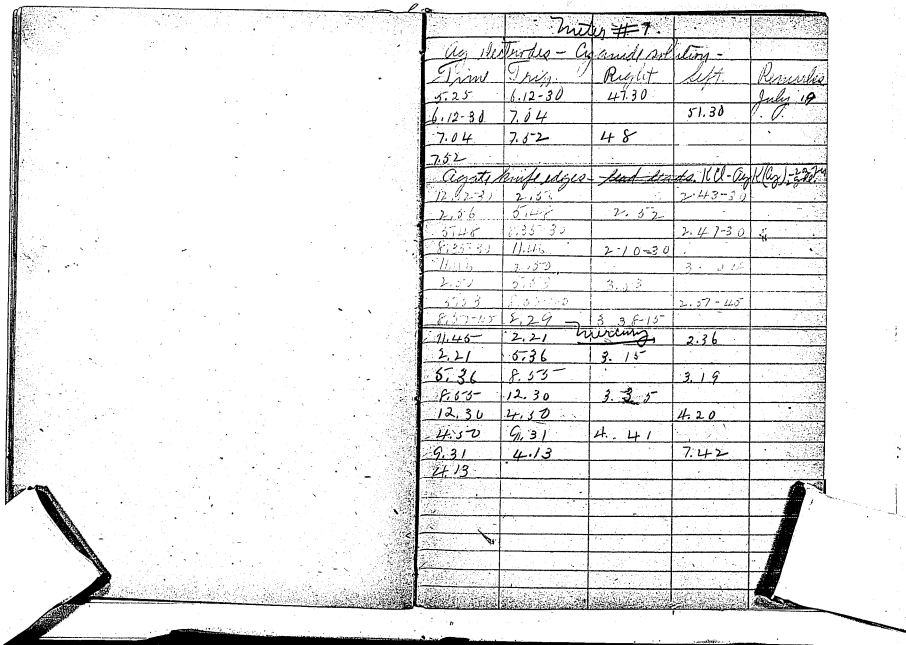


Train	Train	Right	Left	Remarks
8.56	7.40	4.50		
2.06-30	6.45-30		11.36	
8.50-30	12.36	3.50-30		
12.36	3.56		3.08	



6.26-30	12.02	5.35-30	
12.02	3.12		5.10
3.12	6.21-30	3.09-30	
6.21-30	12.31		6.09-30
12.31	3.45	3.14	
3.45	7.27-30		3.42-30
7.27-30	11.15	3.47-30	
11.15	3.17		4.02
3.17	7.38	4.21	
[illegible]	[illegible]	[illegible]	
5.05-30	5.59-30		42
5.59-30	6.34	11.0-30	
6.34	7.23		47
7.23	8.08	45	
8.08	8.49		41
8.49	9.34	45	
9.34	10.18		44
10.18	11.02	44	
11.02	11.46		46
11.46	12.36	48	
12.36	1.22		46
1.22	2.03	41	
2.03	2.55		52
2.55	3.41	45	
3.41	4.26		45
4.26	5.12	46	
5.12	5.58		46
10.25	11.13-30	45-30	
11.13-30	12-00		46-30
12-00	12.45	45	
12.45	1.40		55
1.40	2.35	45	

		Right	Left	Remarks
12.19	3.25		3.09	
8.28	6.23	2.55	3.	
6.23	9.45-30		3.02-30	
9.25-30	12.28	3.02-30		
12.28	3.45		3.17	Batt. down
6.18-30	10.01	3.42-30		Restart.
10.01	12.1 -30		3.20 30	
1.21-30	4.17-30	3.29-00		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.35-45	4.19-00	2.43-55		
4.19-00	6.53-00		2.33-20	
6.53-00	9.37-00	2.44		
9.37-00	12.33-00		2.56	
12.33-00	3.47-00	3.14		
3.47-00	7.00-00		3.13	
7.00-00	9.08-30	2.08-30		
9.08-30	12.38-45		2.40-15	
12.38-45	2.25-30	1.30-45		Batt to S.A.E.
2.29-30	6.14		3.44-30	
6.14	9.06-45	2.52-45		
9.06-45	12.26-30		9.19-45	



Water #7

Ag Methods – Cyanuric Acid Testing –

Time	Trig.	Rustlit	Left	Remarks
5.25	6.12-30	47.30		July 19
6.12-30	7.04		51.30	
7.04	7.52	48		
7.52				

Acquatic Periodic edges – ~~Test Strips~~ KCl-Cyan/Reg. ~~37~~

12.02-30	2.53		2.43-30	
2.56	3.44	2.52		
3.46	4.35 30		2.47-30	
8.25-30	11.46	2-10-30		
11.46	2.52		3.00	
2.52	3.42	3.43		
3.43	8.00-30		2.37-45	
8.00-45	2.29	3.36-15		
11.46	2.21	Morning	2.36	
2.21	6.36	3.15		
6.36	8.53		3.19	
8.53	12.30	3.35		
12.30	4.50		4.20	
4.50	6.31	4.41		
6.31	4.13		7.42	
4.13				

Tinter #2 — Ag electrode — Cyanide solutions

Time	Trip	Voltage	Set	Remarks
7.16	8.15	6.2		July 16
8.15	9.22		6.4	
9.22	10.27	6.5		
10.27	11.28		6.1	
11.28	12.31	6.3		July 19.
12.31	1.41		6.0	
1.41	2.47	6.6		
2.47	3.45		6.1	
3.45	4.56	6.8		
4.56	5.57		6.1	
5.57	6.56	5.9		
6.56	8.02-30		6.4-30	
8.02-30	9.02-30	6.2		
9.02-30	10.01-30		5.9	
10.01-30	11.09	6.7-30		
11.09	12.18		6.9	
12.18	1.26	6.8		
1.26	2.32		6.6	
2.32	3.41	6.9		
3.44				

Light Cyanide sol — expect Tripping Time.

10.50	1.45		7.48	July 25
1.45	2.53	7.41		
2.53	3.03		7.42	July 26
3.03	10.11	3.06		
10.11	4.16			Discontinued July 26th
4.16	7.19-30		3.07-30	
7.19-30	10.14-30	7.55-1		
10.14-30	12.32-45		7.37-45	
12.32-45	3.30	7.37-45	~~7.41.5~~	Sent to Tube
3.30	6.07		7.37	
6.07	9.12	7.05		
9.12	12.21		3.04	July 28
12.21	3.33	3.12		
3.33	6.43-30		3.10-30	
6.43-30	9.22	7.37-30		
9.22	12.00		7.38	
12.00	2.44	7.44		Sent to Tube

9.44-11	5.03-		3.71
5.25	8.03	2.38	
8.03	10.46		2.43
10.46	1.17-30	2.31-30	
1.17-30	4.12		2.33-30
4.12	6.47-30		
6.47-30	9.12		2.21-30
9.12	11.35-30	2.23 30	
11.35-30	2.05-		2.29-30
2.05-	4.45-	2.40	
4.45-	7.29		2.44
7.29	10.12	2.43	
10.12	1.15-		3.03
1.15-	5.02	3.47	
5.02	7.58		2.56
7.58	10.47	2.49	
10.47	1.45-		2.58
1.45-	5.19	3.34	
5.19	9.16		3.59
9.16	1.46	4.28	
1.46			

Meter # 3 Gg Shutzpfeife - Cygnus/Sagittarius

Time	Freq	Rapidity	Sept.	Remarks
6.17	7.16	5-9		July 18
7.16	8.01-30		45-30	
8.01-30	8.56	54-30		
8.56	9.44		48	
9.44	10.38	54		
10.38	11.18		40	
11.18	12.15	57		July 19
12.15	1.18		58	
1.18	2.16	63		
2.16	3.10		56	
3.10	4.06	56		
4.06	4.54		48	
4.54	5.54	60		
5.54	6.34		40	
6.34	7.32-30	58-30		
7.32-30	8.14-15		41-45	
8.14-15	9.09	54-45		
9.09	9.48		39	
9.48	10.43	55		
10.43	11.26		43	
11.26	12.23	57		
12.23	1.00		37	
1.00	2.02	62		
2.02	2.45		43	
2.45	3.45	60		
3.45	4.30		45	
4.30	5.22	52		Sent to Phys
5.22	6.03 Tj3		41	
6.03	7.01	58		
7.01	7.46		45	
11.55	12.48	73	53	July 20
12.48	2.01		93	
2.01	3.54	96		
3.54	5.10		67	
5.10	6.17			

Ni_2CO_3 = Ag K(Cy)$_2$ = agate bridging freq July 23 - A.B.O.

11.44	1.02	1.08		In Mimeo
1.02	4.42			
4.42	5.44		1.42	by Tesla

#3 K_2CO_3 - $Ag_2K(C_2)_2$

Trial	Trial	Right	Left	Remarks
8.44	7.75	2.31		
7.15	9.40		2.25	
9.40	11.15	1.35		Just P.M.
11.15	12.12		0.57	
12.12	1.47	1.25		
1.47	2.44		0.57	
2.44	4.21	1.27		
4.21	5.22 - 30		1.01-30	
5.22 - 30	7.02 - 30	1.40		
7.02 - 30	8.16 - 30		1.12	
8.16 - 30	10.00	1.45-30		
10.00	11.25		1.25	
11.25	12.25 - 30	1.33 - 30		
12.25 - 30	2.07		1.08 - 30	
2.07	3.56	1.49		
3.56	5.10		1.14	July 26
		1.17-30		
			1.26	
1.26	2.42	1.14		
2.42	3.34		1.32	
3.34	4.30	.56		
4.30	6.51		2.21	
6.51	8.14 - 30	1.23-30		
8.14 - 30	9.43		.56-30	
9.43	10.36-30	1.23-30		
10.36-30	11.34		1.57-30	
11.34	12.57	1.23		
12.57	1.36		.59	July 26
1.36	3.10	1.20		
3.16	4.28		1.09	
4.28	5.35	1.10		
5.35	7.29		.54	
7.29	7.48	1.21		
7.50	8.44 - 30		.54-30	
8.44 - 30	10.03	1.20-30		
10.03	11.20		1.15	
11.20	12.35	1.31		
12.51	1.47		.56	
1.47	3.16	1.29		

#3 K_2CO_3 - $Ag_2K(C_2)_2$

3.10	6.00		2.24
6.00	6.45	1.28	
6.45	8.22		1.38
8.26	9.36	1.29	
9.36	11.06		1.31
11.06	12.11	1.28	
12.11	1.44 - 30		1.33-30 July 27
1.44 - 30	3.20	1.28-30	
3.20	4.37		1.37
4.37	5.34	1.07	
5.34	7.13		1.39
7.13	8.22	1.29	
8.22	9.47		1.25
9.47	10.42 - 30	.57-30	
10.42 - 30	11.40 - 30		1.29 - 30
10.40 - 30	1.23	.58-15	
1.03	2.20		1.21
2.11	3.27	.57	
3.21	4.41 - 30		1.32-30
4.41 - 30	5.36 - 30	.57	
5.36 30	7.06		1.29
7.26	8.33	1.07	
8.33	9.42		1.33
9.42	10.34	1.06	
10.34	12.26-30		1.34-30
12.26-30	1.37-30	1.09	July 28
1.37-30	3.12		1.34-30
3.12	4.27	1.10	
4.27	5.57		1.35
5.57			Well done! J. Crawford

Trolley #4

From	Fr.	Right	Left	Remarks
6.17	7.20		63	Changed rod July 16
7.20	8.21	61		
8.21	9.22		61	
9.22	10.27	65		
10.27	11.31		64	
11.31	12.31	60		
12.31	1.39		65	July 19.
1.39	2.442	63		
2.442	3.440		58	
3.440	4.443	63		
4.443	5.447		64	
5.447	6.447	60		
6.447	7.443-30		56-30	
7.443-30	8.39	55-30		
8.39	9.35-		56	
9.35-	10.30	55		
10.30	11.26		56	
11.26	12.19	53		
12.19	1.13		54	
1.13	2.10	57		
2.10	3.07		57	
3.07	4.02	55-		Went to T.A.C.
4.02	4.58		56	
4.58	6.00	62		
6.00	7.01		61	
7.01	7.59	58		
12.04	1.12		68	Bott. down July 20
1.12	2.22	70.		
2.22	3.33		71	
3.33	4.43	70		
4.43	5.55		72	

Trolley #4 Rig Old + Key - again Trapping Jones A.M. July 22.

12.27	2.39	2.12	.1.58	
2.39	4.34			
4.45-	10.34	1.49		
10.34	12.13		1.39	P.M.
12.13	1.27	1.44		
1.27	3.33-		1.38	
3.33-	5.11	1.36		

#4 KCl - Ag KCl(Cg)2

Trans	Trig	Right	Left	Remarks
5.11	7.03		1.52	
7.03	8.53	1.50		
8.53	10.44-30		1.55 -30	
10.44-30	12.43	1.5 4 30		
12.43	2.41		1.58	
2.41	4.39	2.09		
10.22-30	12.31		1.44-30	
12.31	1.75	1.115		
1.75	3.24		1.40	
3.24	5.23	1.49		
6.07	8.07		1.84	
8.07	10.04	1.44		
10.04	11.51-30	1.42-30	1.43	
11.51-30	1.19		1.48-30	
1.19	3.15	1.45		
3.15	5.14		1.41	
5.14	6.63	1.49		
6.63	10.13		1.41	
10.13	11.57	1.42		
11.57	1.53		1.53	
1.53	3.29	1.30		
3.29	5.32		1.42	
5.32	5.40	.38		
5.40	8.48		1.08	
8.48	8.45	1.57		
8.45	10.32		1.54	
10.32	12.36	1.58		
12.36	2.40		2.01	
2.40	4.42	2.02		
4.42	6.48		2.04	
6.48	8.44	2.02		
8.44	10.27		1.43	
10.27	12.14	1.47		
12.14	1.27		1.43	
1.27	3.41	1.48		
3.41	5.17-30		1.32-30	
5.17-30	7.04	1.46-30		
7.04	8.58		1.54	

#4

5.08	7.03	1.57		
10.46	12.43		1.39	Jump ok
12.43	2.28	1.50		
2.28	4.03		1.40	
4.03	6.03	3.89		
6.03	7.43		1.40	
7.43	9.35	1.52		
11.25	11.29		1.50	
11.29	1.17-30	1.52-30		
1.17-30	3.05-30		1.51	
3.05-30	4.43	1.49-30		
4.43	6.33		1.53	
6.33	8.33-30	1.40-30		
8.33-30	10.14-30		1.41	
10.14-30	11.58	1.43-30		
11.58	1.42		1.42	
1.42	3.27		1.57	
3.27	5.25	1.53		
5.25	7.08		1.44	
7.08	9.25		1.35	
9.25	11.57	1.45		
11.57	12.25		1.35	
12.25	2.20	1.35		
2.20	3.36		1.36	
3.36	6.37			
6.37	8.28	1.37		
8.28	10.06		1.38	
10.06	11.49	1.43		
11.49	1.43		1.54	
1.43	3.40	1.57		
3.40	5.35		1.55	

Miles # 5 Ag Westrudes + Charlottes

Train	Trip	Right	Left	Remarks
7.06	10.40		3-34	July 6
10.40	2.11	3.31		July 19
2.11	5.16		3.05	
5.11	10.21	5.05		
10.21	3.41		5.20	
3.41				
5.16 from	Westrudes	Sue pastures		Sue 3-7
10.40	6.22	7.56		July 5
6.22	12.47		6.23	
12.47	7.06	7.09		Ag and Jay
7.06	2.30		7.31	Sue 7-8
2.30	10.37-30	6.52 -30		
10.37-30	3.10		5.48-30	
3.10	6.53	6.35		
6.53	2.45		5.55	
2.45	10.17	6.21		
10.17	2.47-30		5-35-30	
2.47-30	8.25	5.37-30		
8.25	2.33		6.08	
2.33	8.55	6.25		
8.55	2.28		5.30	
2.28	3.04			

Meter # 6

Time	Temp.	Reading	Left	Remarks
6.15	7.06		5-1	July 1st
7.06	7.5-1	45		
7.5-1	8.37-30		45 30	
8.37-30	9.24	46-30		
9.24	10.08		44	
10.08	10.5-1	48		
10.5-6	11.42		46	
11.42	12.32	8-0		
12.32	1.22		50	July 19.
1.22	2.11	49		
2.11	2.5-8		47	
2.5-8	3.44	46		
3.44	4.19		3 5-	
4.19	5.16	57		
5.16	5.58-7		41	
5.58.7	6.40	43		
6.40	7.23		43	
7.23	8.10	47		
8.10	8.49		39	
8.49	9.35-	46		
9.35	10.15-		40	
10.15-	11.00	45-		
11.00	11.45-		45-	
11.45-	12.32-	47		
12.32	1.12		40	
1.12	1.57	45		
1.57	2.37		40	
2.37	3.19	42		
3.19	4.01		42	
4.01	4.46	40-		Sent to T.C.E.
4.46	6.30		44	
6.30	6.17	47		
6.17	7.46			
7.46	8.34		48	Batt down
12.53	1.12	#9		
1.12	2.01		49	
2.01	2.56	55-		
2.56	3.35		42	
3.35	4.27	49		
4.27	5.16		52	

5.16 - 6.16 - 52

#6 K_2CO_3 - Ag NO_3 (Cyj)2

Time	Trial	Weight	Diff	Remarks July 23 P.M.
4:58	6.46	11.48		
6.46	8.35		1.49	
8.35	10.25	1.89		
10.25	12.18		1.60	
12.18	2.07	1.49		
2.07	4.03-30		1.56-30	
4.03-30	5.58	1.54 30		
1.50	7.16			
7.16	9.01		1.35	
9.01	10.39	1.26		
10.39	12.11		1.20	
12.11	2.23-30	1.32		
2.23-30	4.31		1.27-30	
4.31	6.06	1.27-30		
6.06	7.93		1.23	
7.93	9.56	1.23		
9.56	11.16		1.21	
11.16	12.37	1.21		
12.37	1.57		1.20	
1.57	3.17	1.20		
3.17	4.37		1.20	
4.37	5.55	1.18		
5.55	7.23		1.28	
7.23	8.54	1.31		
8.54	10.21		1.27	
10.21	11.54	1.33		
11.54	1.23-30		1.29-30	
1.23-30	2.58	1.34-30		
2.58	4.31		1.33	
4.31	5.64	1.33		
6.04	7.30		1.26	
7.93	8.56	1.26		
8.56	10.16		1.20	
10.16	11.37	1.21		
11.37	1.37-30		1.21-30	
1.37-30	3.35-30	1.14		
3.35-30	5.11		1.17-30	
5.11	7.32	1.18		
7.32	9.49-30		1.17-30	
9.49-30	11.06-30	1.17		
11.06-30	12.41		1.18	
12.41	2.21	1.17 30		
2.21	3.38		1.21	
3.38	4.55	1.17		
4.55	6.02		1.16	
6.02	7.09	1.07		
7.09	8.24		1.27	
8.24	9.40	1.15		
9.40	11.02-30		1.19	
11.02-30	12.22	1.19-30		
12.22	1.45		1.23	
1.45	2.58-30	1.13 30		
2.58-30	4.12-30		1.16	
4.12-30				

1.24

1.20 — 1.20 — Sent to Tech

1.18

1.31

1.33

1.34-30

1.33

1.26

Sent to Tech

1.21

1.14 — Sent to Tech

1.18

1.17

1.17 30 — Sent to Tech

1.16

1.27

1.15

1.19-30

No 9

In this table forty pulls of
these oxid iron & 600 degs
Farad Thermometer and iron 1/2
hour temper No heat

No 10

214	222
223	229
228	231
183	239
234	236
220	231
1302	1388

1388
269 0 (224
24
24
0 5

12.

No 5

in old iron tube half full linseed oil ran to 600 degs and leaked could not find any of the bamboo fibres nor any sugar or gelatine

No 6

in iron tube half full of Castor oil ran to 600 and then leaked

No 7

in iron tube filled with powder carnauba wax ran to 600 degs and took out thermometer and ran 25 minutes longer and then it leaked

No 8

in iron tube filled half full of stearic acid ran to 600 degs and took out thermometer and ran half hour longer and no leak

197 261 (1.32)

250	197
270	199
334	233
336	262
295	215

1105 | 1505

No 1

Bronze tube 3/32" wall, 1/4" bore
Analyze, run to 350 Dgs of steel
and ream in tube obtained

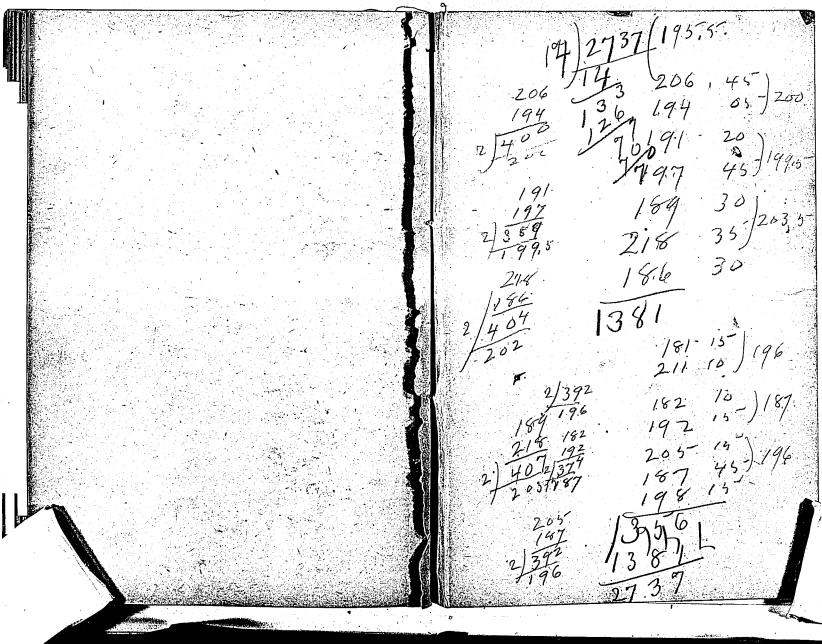
No 2—

Bronze tube 3/32" wall, 1/4" bore of
Custer rod run to 600 degs of steel
tube Emitted ream

No 3

Bronze tube 3/32" wall, 1/4" bore of
Bored Finished rod run to 575 degs
ream Hand

No 4

with odd run Tube filled with gas
of Jewel no run to 600 degs and
tool and Thermocouple and run 15 minutes
Then run at Thermostat Heated

187			
211	01		
142			
192			
205			
187			
198	3		
1362			
194.6			
206			
194			
191			
197			
189			
218			
186			
1381			
197.2			
194.6			
391			
195.9	2		
195.9			
195.5